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LOCUS Drosophila melanogaster Canton S serotonin transporter mRNA,  
DEFINITION complete cds.  
ACCESSION 004809  
VERSION 004809.1 GI:506639  
KEYWORDS fruit fly.  
SOURCE Drosophila melanogaster  
ORGANISM Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
Ephydroidea; Drosophilidae; Drosophila.  
REFERENCE 1 (bases 1 to 1869)  
AUTHORS Demchishyn, L.L., Pristupa, Z.B., Sugamori, K.S., Barker, E.L.,  
Blackley, R.D., Wolfgang, W.J., Forte, M.A. and Niznik, H.B.,  
Cloning, expression, and localization of a chloride-facilitated,  
cocaine-sensitive serotonin transporter from Drosophila  
melanogaster  
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 91 (11), 5158-5162 (1994)  
MEDLINE 94255490  
PUBMED 8197200  
REFERENCE 2 (bases 1 to 1869)  
AUTHORS Niznik, H.B.  
TITLE Direct Submission  
JOURNAL Submitted (30-DEC-1993) Hyman B. Niznik, Laboratory of Molecular  
Neurobiology, Clarke Institute of Psychiatry, 250 College St.,  
Toronto, Ontario, M5T 1R8, Canada  
FEATURES  
Source location/Qualifiers  
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DEFINITION			Drosophila melanogaster cocaine-sensitive serotonin transporter
ACCESSION	U02296		complete cds.
VERSION	002296.1	GI:406054	
KEYWORDS			
SOURCE			Drosophila melanogaster.
ORGANISM			Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
REFERENCE			1 (bases 1 to 2461)
AUTHORS			Corey,J.L., Quick,M.W., Davidson,N., Lester,H.A. and Guastella,J.
TITLE			A cocaine-sensitive Drosophila serotonin transporter: cloning,

JOURNAL	expression, and electrophysiological characterization		
MEDLINE	Proc. Natl. Acad. Sci. U.S.A. 91 (3), 1188-1192 (1994)		
PUBMED	94134723		
REFERENCE	8302852		
AUTHORS	2 (bases 1 to 2461)		
TITLE	Corey, J.L.		
JOURNAL	Submitted (30-SEP-1993) Corey J.L., California Institute of Technology, Pasadena, CA 9125, USA		
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Qy	283	GAACTGCGCTGGGCGAGTACACACCGCTGGGCTGCTTCTGCAAGCGATTGCG	342
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Qy	583	GTAATTGAGCAGCAAGTCTAAGCGCTGAGTACATGGGCGCATCAAGCGCTGCGGT	642

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 SOURCE  
 ORGANISM  
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 1 (bases 1 to 2340)  
 Made,P.R., Chen,J., Jaffe,B., Kassam,I.S., Blakely,R.D. and  
 Gershon,M.D.  
 Localization and function of a 5-HT transporter in crypt epithelia  
 of the gastrointestinal tract  
 J. Neurosci. 16 (7), 2352-2364 (1996)  
 JOURNAL  
 MEDLINE  
 PUBMED  
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 2 (bases 1 to 2340)  
 Chen,J., Made,P.R., Rothman,T.P. and Gershon,M.D.  
 Guinea pig intestinal mucosal transmembrane 5-HT transporter  
 Unpublished  
 3 (bases 1 to 2340)  
 Chen,J., Made,P.R., Rothman,T.P. and Gershon,M.D.  
 Direct Submission  
 Submitted (09-JAN-1997) Anatomy & Cell Biology, Columbia University  
 P&S, 630 W. 168th St., New York, NY 10032, USA  
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Db      1604  GCTTACCGCGGATGTTTGGAGGATCTGCTGGGTGGGCGGTACACCCGTTCTCTCC 1663
Qy      1523  TGTGCTGTCTGCTTCTCCGTTCTGCGACACAGAGATGCTGGCGGGGAATACCT 1582
Db      1664  TTTTCATCATCTCAGTTTCTGATGAGCCACCCAGCTACGACTTTTCCATATACAT 1723
Qy      1583  ATCCCTCATGCTATACCGTATGCGTGGGTGATGACCGGACACCGCTGTGCTGATTC 1642
Db      1724  ATCCCACTGAGTGTATCTGCTGGTTACTGCTAATGAGACTTCTCCGTCATCTGATTC 1783
Qy      1643  CTCTTACATATCTCAAACTGCTCATCTCTGCAATTTGCAATTCACATCCGATCAGA 1702
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RESULT 5
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LOCUS      RNSLC6A4      2015 bp      mRNA      linear      ROD 12-AUG-1998
DEFINITION R.norvegicus mRNA for serotonin transporter.
ACCESSION Y11024
VERSION    Y11024.1 GI:1841937
KEYWORDS   serotonin receptor; SLC6A4 gene.
SOURCE     Rattus norvegicus.
ORGANISM   Rattus norvegicus; Chordata; Craniata; Vertebrata; Euteleostomi;
            Eukaryota; Metazoa;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
            Rattus.
REFERENCE  1 (bases 1 to 2015)
            Smith, A.P.L.
            Direct Submission
            Submitted (04-FEB-1997) A.P.L. Smith, Section of Respiratory
            Medicine, Sheffield University, Floor F, Medical School, Beech Hill
            Road, Sheffield S10 2RX, UK
            2 (bases 1 to 2015)
            Gonzalez, A.M., Smith, A.P., Emery, C.J. and Higebottam, T.W.
            The pulmonary hypertensive fawn hooded rat has a normal serotonin
            transporter coding sequence
            Am. J. Respir. Cell Mol. Biol. 19 (2), 245-249 (1998)
JOURNAL    JOURNAL
MEDLINE    98365414
PUBMED     9698596
REFERENCE  3 (bases 1 to 2015)
            Hofman, B.J., Mezey, E. and Brownstein, M.J.
            Cloning of a serotonin transporter affected by antidepressants
            Science 254 (5031), 579-580 (1991)
JOURNAL    JOURNAL
MEDLINE    92054541
PUBMED     1948036
FEATURES
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location/Qualifiers
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Query Match	32.8%	Score 579.4	DB 10	Length 2015
Best Local Similarity	60.0%	Fred. No. 1.7e-123		
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Oy	TGATGTCCCTACACGGCGGCGGACGCCGAGACCTGGGCGGAAGAAGGACAGTTCCTGC	145		
Db	209 TGTGTGCTGAATTCGCCAAGGGAGCGGGAGACCTGGGCGAAGATGATTTCTCTCC	268		
	146 TGGCGGTGTGGATTCGACGTGATCTTTGTTAACTGTGGCGATTCCTCCATCTGTT	205		
Db	269 TGTCCGTATTGGTATCGCGTGACCGGGCAACATCTGGCGGTTCTTACATATGCT	328		
Oy	206 ACCGAATGAGAGGGGTCGTTCTCGATCCCGTACTGGTATGCTGTTGGCGGGC	265		
Db	329 ACCGAATGAGAGGGGCTTCCTCCCTTATACCATCATGAGCCATTTTGGGGGGA	388		
Oy	266 TGCAGCTGTTCTTCTGTGAACTGGGCGCTGGGCCAGTACACCGCGCGCTGCCTCACTC	325		
Db	389 TCCGCTCTTTTACATGAGAGCTCGGACCTGGGCCAGTACACGGAACGGGTGCATTTCCA	448		
Oy	326 TCTGGAAGGATCTGCCCCCGGCTTAAAGTGTGCGCTATGCCATCTGCATGATCGACA	385		
Db	449 TATGAGAGAAATCTGCCCGATTTTCAAAAGGACATTTGTTAGCGCATCTGCATCATCGCCT	508		
Oy	386 TCTCATATGGGATGTACTACAAACAGATCATGGATGGGCGGTGATATTCGATCGGTT	445		
Db	509 TTTACATGCGCTCTCTACTACAAACATCATATAGCTGGGCGCTCTACTACTCATCTCTCT	568		
Oy	446 CTCTGCGCTATATAACTCTGTGTGCTGCCATGAGCAGCTGCAGCAACGATGGAACACGC	505		
Db	569 CCGCTACAGCAGCGGCTGCCCTGGAAACAGATCAGACAAATCTCTGGACAACTGTGCACATGCA	628		

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Db	629	CCAACTACTTGGCCCGAGGCAACAATCACTGAGCGCTGCAATTCACACGTCCCGCCGTGAGG	688
QY	566	AGTTCTTGAAAGCAATGATATTGAGAGCGACCAAGTCTAACGGGCTGGATACATCAATGGGGC	625
Db	689	AGTTCTACTTGGCCGCAATGCTCTGACAGATCCACAGTCTAAAGGAGCTCCAGGACCTGGGCA	748
QY	626	CGATCAACCCGCTCGCTGGCTGTGTGTGTTGCGGGGTCTTTGTCCCTGCTACTTCTCTCT	685
Db	749	CCATGAGTGGCAGCTGACTCTGTGCATCGTGTCACTCTTACCGGTAATCTACTTTAGCA	808
QY	686	TGTGGAANAAGATCAGAGTCTGGCCAAGTGTGTGGGTGACAGACTCTGGCCCCGACG	745
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QY	806	GCTACTACTTACCCGACAGTGGCGCAATTTGCAAAATCTTAAGTATGATTAACGGCG	865
Db	929	TCTTCTACTTGAACCCCAACTGGCAGAAACTCTTGGAGACAGGGGTGTGGGTAGATGCCG	988
QY	866	CATCCAGATTTTCTTCTCGCTCGGTCCCGGGTTTGGAAACCTCTACTGCGCTCTCCACT	925
Db	989	CCGCTCAGATCTTCTCTCTCTGTGGCCCGGGGTTTGGGGTTCTCTCGCTTTTGTGTA	1048
QY	926	ACACCAATCTCAACACAACACTGCTTACAGGGACGGCTATATCACTTCTTCTTCAACTGCT	985
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Db	1349	TGCTGTGATGAGTTCCTCATCATCTGTGGCGCAAGCGGGAATGGTTCGTCTCATCTGTG	1408
QY	1283	TTCTGTCTCATATAATTTTGGCGTCTGCCACCAACCAATPACGTTGTATTAACCTCGTAG	1342
Db	1409	TCATACAGCTGGTGTGGGATCCCTGTCACACTGACACTGACGAGAGGGGCAATACGGGTGA	1468
QY	1343	ACCTAATCAATGTGATGAGCCCTGATTTGGGATCTTAATTTGTGTATTTTCTAGAGCTG	1402
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QY	1463	GGACACACCCGTGATGTGTTGTGAGAGACTGTGTGCTTACATCAATGCCGTATTTTTCG	1522
Db	1589	GCTTCAGCCCGGAGATGTTTGGAGAGATCTCTGGTGGCCATACAGCCCTCTGTTTCTGCC	1648
QY	1523	TGTGTCTTGTGTGTCTTCCGTTCTTGGCAGACAGAGAAATCTGTGGGGGAATATACACT	1582
Db	1649	TGTTCTATATTTGCAAGTTTCTGATGAGCCCAACCCCACTACGGCTTTTCCAAATACACT	1708
QY	1583	ATCCCTCATGTGCTATACCGTAGGCTGGGTGATGACGGGACCAACCGCTTCTGTGATCTC	1642

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OY 1643 CTCCTTACATTAATCAAACTGCTCATCTCTGCAATTCGATCAACCGCATCAGA 1702  
Db 1769 CTCCTATATCAATTAATCGGCTATACGACTCGCGGACATTAAAGAGCGCATTAATTA 1828  
OY 1703 CAATCCAACTCCGGA 1719  
Db 1829 AAGTATCACTCCTGAA 1845

RESULT 6  
LOCUS 112034 2278 bp DNA linear PAT 26-JUL-1995  
DEFINITION Sequence 6 from Patent US 5418162.  
ACCESSION 112034  
VERSION 112034.1 GI:909475

KEYWORDS  
Unknown.  
Unclassified.

REFERENCE  
1. (bases 1 to 2278)  
Blakely, R.D., Caron, M.G. and Fremeau, R.T. Jr.  
TITLE Serotonin transporter CDNA  
JOURNAL Patent: US 5418162-A 6 23-MAY-1995;  
FEATURES Location/Qualifiers  
source 1..2278  
organism="unknown"  
BASE COUNT 501 a 654 c 576 g 547 t  
ORIGIN

Query Match 32.8%; Score 579.4; DB 6; Length 2278;  
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QY	866	CATCCCAAGATTTTCTTCGCTCGGTGCCGGGTTCGAAACCCTAAGTGGCGCTTCCAGCT	925
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Db	1764	TGTTTCATCATTTTGCAGTTTCTGTATGAGCCACCCCACTACGGCTTTTCCAAATACACT	1823
QY	1583	ATCCCTCATGCTATATCAACCCCTAGCGTGGATGATGACCGGACCAACCGTCTCGGTGATTC	1642
Db	1824	ATCCCACTGGAGATGCTCTTGGGCTACGTCATAGGAGATGTGCGGTATCTGTGATGCC	1883
QY	1643	CTCTTTACATTATCTCAAACTGCTCATCACTCTCGCATTTGGCATTCACACCGCATCAGA	1702
Db	1884	CTACCTAATATATTATGCTGTGATCAACACCTCCGGGGACACTTAAGAGCGCATTTATTA	1943
QY	1703	CAATCCACGTCGGGAA 1719	
Db	1944	AAAGTATCACTCTCTGAA 1960	
<p>RESULT 8  RESERTRAN 2415 bp mRNA linear ROD 27-JUL-1992  LOCUS R:ratlms mRNA for serotoninh transporter.  DEFINITION X63253 GI:57742  VERSION</p>			



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Db 1644 TCGGCGTGTGCTGGGTGTATGCGCTCCGACCGCTTCTCTGAAGATGTGAGACATGCTGG 1703  
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Db 1704 GCTTCAGCGCCGGATGTTGGTTGGAGATCTGCTGGTGGCCATGACCCCTCTGTTTCTCC 1763  
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QY 1643 CTCTTACATATATACAACTGCTCATCTCCGCAATTCATCAACCGCATCAGA 1702  
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## RESULT 9

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DEFINITION R.norvegicus NTT mRNA.  
ACCESSION X63995  
VERSION X63995.1 GI:56779  
KEYWORDS neurotransmitter; neurotransmitter transporter; NTT gene.  
SOURCE Rattus norvegicus  
ORGANISM Rattus norvegicus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

REFERENCE 1 (bases 1 to 3190)  
AUTHORS Mayer, W., Beitz, H. and Schloss, P.  
TITLE Isolation of cDNAs encoding a novel member of the neurotransmitter transporter gene family  
JOURNAL FEBS Lett. 295 (1-3), 203-206 (1991)  
MEDLINE 92111740  
PUBMED 1765155  
REFERENCE 2 (bases 1 to 3190)  
AUTHORS Mayer, W.  
TITLE Direct Submission  
JOURNAL Submitted (15-JUL-1992) W. Mayer, MPI fuer Hirnforschung,  
Deutscherordenstr 46, 6000 Frankfurt 71, FRG  
COMMENT See also M79450 & X63253.  
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TWLHSTSPAEFLYLRHVLQIHQSKGLDIDLTISQWLITLIVLITVYIFIMGKVT

SKRVVWATPEPYIVLSVLVRGATLPGMAGVVEFLKPNMOKLLENGVVDAAOIF  
ESLGGFCVLLATFASYNKNNKODALSVNMCFTSVFAGPYITFLVGAEMERNE  
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LDERPHIARKRENFVLIVITCVGLSILITTSAGAVYITLLEBATGPALYALIE  
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 ORGANISM Mus musculus.  
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 REFERENCE Chang,A.S., Chang,S.M., Starnes,D.M., Schroeter,S., Bauman,A.L. and  
 AUTHORS Blakey,R.D.  
 TITLE Cloning and expression of the mouse serotonin transporter  
 JOURNAL Brain Res. Mol. Brain Res. 43 (1-2), 185-192 (1996)  
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PUBMED 9037532  
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 AUTHORS Chang,A.S. and Chang,S.M.  
 TITLE Nongenomic steroid modulation of high-affinity serotonin  
 JOURNAL transport  
 MEDLINE 99177451  
 PUBMED 10076044  
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 AUTHORS Chang,A.S., Chang,S.M., Starnes,D.M., Schroeter,S., Bauman,A.L. and  
 Blakey,R.D.  
 TITLE Direct Submission  
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 ACCESSION AF119122  
 VERSION AF119122.1 GI:4588917  
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 REFERENCE 1 (bases 1 to 2595)  
 AUTHORS Mortensen, O.V., Kristensen, A.S., Rudnick, G. and Wiborg, O.  
 TITLE Molecular cloning, expression and characterization of a bovine serotonin transporter  
 JOURNAL Brain Res. Mol. Brain Res. 71 (1), 120-126 (1999)  
 MEDLINE 9937805  
 PUBMED 10407194  
 REFERENCE 2 (bases 1 to 2595)  
 AUTHORS Mortensen, O.V. and Wiborg, O.  
 TITLE Direct Submission  
 JOURNAL Submitted (11-JAN-1999) Psychiatric University Hospital, Lab of Molecular Neurobiology, Skovagervej 2, Risskov 8240, Denmark  
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DEFINITION	M.musculus mRNA for serotonin transporter, partial.				

ACCESSION	X66119
VERSION	X66119.1
KEYWORDS	GI:312495 glutamate receptor; glutamate receptor subunit.

**SOURCE ORGANISM**

REFERENCE  
1 (bases 1 to 2357)  
Barnard, J. C., Metcalf, C., Choudhary, S., and Choudhary, S. 1991. Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.

Gregor, P.  
Direct Submission  
Submitted (04-JUN-1992) P. Gregor, National Inst on Drug Abuse

REFERENCE  
2 (bases 1 to 2357)  
Cresceri P, Shimada S, Lin C I, Hochalla T  
Molecular Neurobiology Lab, Box 5180, Baltimore MD 21224, USA

AUTHORS	TITLE
Gregori, F., Facci, A., Shimada, S., Liu, C.-L., Nuclele, C., Kitayama, S., Seldin, M., and Uhl, G.R.	Murine serotonin transporter: sequence and localization to

Chromosome II	JOURNAL	FEATURES
Mamm. Genome 3, 283-284 (1993)		Location/Qualifiers

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Query Match	Score	DB	Length
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Best Local Similarity	60.2%;	Pred. No. 1.2e-119;							
Matches	995;	Conservative	0;	Mismatches	642;	Indels	17;	Gaps	3





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VRLNAV"
BASE COUNT      486 a      607 c      567 g      547 t
ORIGIN
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Matches 959; Conservative 0; Mismatches 640; Indels 3; Gaps 1;
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290 TGGACCTGGGCAATGTCTGGCGCTCCCTACATATGTTACAGAAATGAGAGGGGCA 349
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227 TCGTATCCGTACTGCGTATCTGCTGTTTGGCGGGCTGGCGGTCTTCTCTGAGAC 286
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## RESULT 14

RATSTRP LOCUS RATSTRP 2751 bp mRNA linear ROD 27-APR-1993  
 DEFINITION Rat serotonin transporter mRNA, complete cds.  
 ACCESSION M79450  
 VERSION M79450.1 GI:207086  
 KEYWORDS serotonin transporter.  
 SOURCE Rattus norvegicus  
 ORGANISM Rattus norvegicus  
 Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

REFERENCE 1 (bases 1 to 2751)  
 Hoffmann, B.J., Mezey, E. and Brownstein, M.J.  
 Cloning of a serotonin transporter affected by antidepressants



JOURNAL Science 254 (5031), 579-580 (1991)  
MEDLINE 92054541  
PubMed 1948036

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source Location/Qualifiers

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